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OCT 1 0 1967

MOSS EXCHANGE CLUB.

REPORT

For the Year 1902.

Stroud:
PRINTED BY J. ELLIOTT, HIGH STREET.
1902.

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THE SEVENTH ANNUAL REPORT

OF THE

MOSS EXCHANGE CLUB,

1902.

REPORT OF THE DISTRIBUTER FOR 1902.

To this year's distribution contributions have come in from 28 members, of which details are annexed, desiderata lists only from 6 members, and no communication at all from the other 6.

Messrs. Dixon, Horrell, Ingham, Macvicar, Meldrum, Nicholson, and Wheldon deserve the best thanks of the Club for their valuable services as Referees, and mine for the expedition with which they completed their troublesome duties. I am pleased likewise to record my appreciation of the promptitude with which members sent in their parcels at the specified time.

In quality most specimens were quite satisfactory and some excellent, while a few have been returned to members as samples of what should not be sent.

Parcels have been despatched to 34 members, and I regret to have been obliged to make such an inadequate return to those who sent the best contributions, while some, I must candidly say, have got more than they deserved.

The distribution of Sphagna and Harpidia has been somewhat unsatisfactory owing to the want of up-to-date desiderata lists in the case of these.

Specimens distributed unstamped have not had their names confirmed by Referees.

Fewer than 5 packets of any species are, I think, of little use for distribution. (Report for 1901, p. 68.) Of moderately rare species 10 to 15 specimens or at most 20 seem to be sufficient, except in the case of new species and varieties which only one or two members probably possess, and of such 35 packets could be utilized. My impression is that members would be well advised not to send more than 150 to 200 specimens, though I do not wish to repress anyone's generosity; and on the other hand all should try to send at least from 50 to 100 packets.

For the form of the list of species I wish to assume the sole responsibility. Only initials of the Collectors, when members of the Club, are given. I insert the name or number (in brackets) of the vice county, but not both, and usually one other name to define the locality more closely. This will not I hope impair the utility of the list, and will tend to economy.

T. Barker, Distributer.

MOSSES AND HEPATICS

SENT IN TO THE DISTRIBUTION OF 1902.

	MOSSES.		HEPATICS.		TOTAL.	
	Species and Vars.	Packets.	Species and Vars.	Packets.	Species and Vars.	Packets.
Miss E. Armitage ..	9	62	—	—	9	62
Mr. J. E. Bagnall ..	4	55	—	—	4	55
Prof. T. Barker ..	15	182	—	—	15	182
Mr. H. Beesley ..	31	55	—	—	31	55
Mr. E. Cleminshaw ..	13	117	—	—	13	117
Mr. C. Crossland ..	1	6	—	—	1	6
Mr. H. Darton ..	16	54	—	—	16	54
Mr. H. N. Dixon ..	35	209	—	—	65	209
Mr. J. B. Duncan ..	11	96	—	—	11	96
Mr. E. J. Elliott ..	5	15	—	—	5	15
Rev. W. L. W. Eyre	13	23	6	10	19	33
Mr. W. P. Hamilton	6	62	1	4	7	66
Mr. G. Holmes ..	4	13	—	—	4	13
Mr. E. C. Horrell ..	8	200	—	—	8	200
Mr W. Ingham ..	26	289	4	61	30	350
Mr. A. B. Jackson	2	16	1	11	3	27
Mr D. A. Jones ..	16	314	—	—	16	314
Rev. Canon H. W. Lett	2	29	12	108	14	137
Rev. D. Lillie ..	21	127	7	36	28	163
Rev. W. R. Linton	16	130	8	91	24	221
Mr. R. H. Meldrum	7	60	—	—	7	60
Mr. W. E. Nicholson	9	109	—	—	9	109
Rev. H. P. Reader	1	6	3	49	4	55
Mr. E S. Salmon	7	35	—	—	7	35
Sir J. Stirling ..	16	22	—	—	16	22
Mr. J. A. Wheldon	17	125	2	12	19	137
Mr. A. Wilson ..	7	62	—	—	7	62
Mr. W. Young ..	—	—	49	216	49	216
TOTAL	218	2473	93	598	311	3071

Through the Secretary of the Foreign Section 66 Specimens of Mosses, and 41 of Hepatics have been received, in addition to the above.

Likewise 23 Specimens have been received for naming.

LIST OF MOSSES AND HEPATICS.

Sphagnum fimbriatum Wils., Watten, Caithness, 8/01. D.L.: also, Cockerham Moss (60), Leg. J.A.W., A.W., and H.B., comm. H.B.: var. *tenue* Grav., Cockerham Moss (60), 6/00. Leg J.A.W. and A.W., comm. J.A.W.; same var., nr. Harlech (48). D.A.J.

S. Girgensohnii Russ. Langwell, Caithness, 7/01. D.L.

S. Russowii W., v. *virescens* Russ., Caton Moor (60), 9/00 J.A.W.: Watten, Caithness, 7/01. D.L.: v. *rhodochroum* Russ., Cronkley Fell (65), 8/01. D.A.J. & E.C.H.: same var., Cwm Bychan (48), 10/01. D.A.J.

S. Warnstorfii Russ. v. *flavescens* Warnst., Cockerham Moss(60), 7/01. J.A.W. & A.W.: v. *versicolor* Russ., near Docker (60) J.A.W. & A.W.

S. rubellum Wils. v. *purpurascens* Warnst., near Bournemouth, Dorset, 9/01. W.R.L.: also, (mixed with *S. fuscum fuscescens*) Cockerham Moss (60), J.A.W. & A.W.: v. *rubrum*, Grav., Clougha (60), J.A.W.: v. *viride* Warnst., Watten, Caithness, 6/00. D.L.

S. fuscum Kling. v. *fuscescens* Warnst., Widdybank Fell (66), 8/01. E.C.H. & D.A.J.: also, Achklinloch, Caithness, 6/00. D.L.

S. acutifolium R. & W. v. *versicolor* Warnst, Dunnet Head, Caithness, 5/00. D.L.

S. quinquefarium Warnst. v. *pallescens* Warnst., Widdybank Fell (66), 8/01. E.C.H. & D.A.J.: v. *roseum* Warnst., Watten, Caithness, 4/01, D.L.: v. *virescens* Warnst.. Bower, Caithness, 2/01. D.L.; also, Widdybank Fell (66). E.C.H. & D.A.J.; also, near Loch Maree, W. Ross, 8/96) E.S.S.; also, Beedale (61), 6/01. W.I.: v. *versicolor* Warnst., near Harlech (48), 11/01. D.A.J.

S. subnitens R. & W. v. *obscurum* Warnst., near Bournemouth, Dorset, 9/01. W.R.L.; also, Wardstone (60), 9/00. J.A.W.: v. *versicolor* Warnst., Hulland Moss (57). 8/01. W.R.L.; also, Kinlochewe, W. Ross, 8/66. E.S.S.; also, Spittal, Caithness, 5/01. D.L.; v. *violascens* Warnst, Watten, Caithness, 4/01. D.L.: *virescens* Warnst. f. *squarrosula*, Arncliffe Wood (62), 9/01. W.I.

S. molle Sull., Cwm Bychan (48), 10/01. D.A.J.

S. squarrosum Pers. v. *spectabile* Russ., Dunkery Beacon, S. Somerset, 8/98. E.S.S.; also, Arncliffe Wood (62), 9/01. W.I.: v. *subsquarrosum* Russ., Watten, Caithness, 10/00. D.L.; also, Aintree, (59), 7/98. J.A.W.; also, near Harlech (48), 9/01. D.A.J.

S. riparium Angstr., Cockerham Moss (60), 7/01. J.A.W., A.W., and H.B.

S. cuspidatum R. & W. v. *falcatum* Russ., Kinlochewe, W. Ross, 8/96. E.S.S.; also, near Bournemouth, Dorset, 9/01. W.R.L.: v. *submersum* Schimp., Co. Limerick, 7/01. E.A.; also, Skipwith Common (61), 9/01. W.I.

S. pulchrum Warnst., Watten, Caithness, 10/00. D.L.

S. recurvum R. & W. v. *mucronatum* Warnst., Arncliffe Wood (62), 9/01. W.I.; also, five localities in (57). W.R.L.

S. contortum Schultz, Docker (60), 6/01. J.A.W. & A.W.

S. Gravetii Warnst., near Bournemouth, Dorset, 9/01. W.R.L.

S. rufescens Warnst., Skipwith Common (61), 7/00. W.I.

S. crassicladum Warnst., Skipwith Common (61), 10/01. W.I.; also, Clougha (60), 1/00. J.A.W.; also, three localities in (57). W.R.L.

S. imbricatum Russ. v. *cristatum* Warnst., Widdybank Fell (66), 8/01. E.C.H. & D.A.J. New county record; also, near Harlech (48), 10/01. D.A.J. New to Wales; also, Latheron, Caithness, 6/01. D.L.

S. turfaceum Warnst., Arncliffe Wood (62), 9/01. W.I.

S. cymbifolium Warnst. v. *carneum* Warnst., Kinlochewe, W. Ross, 8/96. E.S.S.: v. *glaucescens* Warnst., Hulland Moss (57), 8/01, and Shirley Park (57), 7/01. W.R.L.: v. *pallescens* Warnst., Pendle Hill (59), 8/01. J.A.W.

S. papillosum Lindb. v. *normale* Warnst., near Bournemouth, Dorset, 9/01. W.R.L.: v. *normale* f. *conferta* (Lindb.), Harris End Fell (60), 9/00. J.A.W. & A.W.; also, Kinlochewe, W. Ross, 8/96. E.S.S.

S. papillosum v. *sublæve* Limpr., Upper Roeburndale (60) 10/99. J.A.W. & A.W.

S. medium Limpr. v. *fuscescens* Warnst., Latheron, Caithness, 6/00. D.L.: v. *purpurascens* Warnst., Watten, Caithness, 9/00 and 8/01. D.L.; also, Widdybank Fell (66), 8/01. E.C.H. & D.A.J.; v. *purpurascens* f. *brachyclada*, Watten, Caithness, 10/00. D.L.: v. *roseum* Warnst., Bower, Caithness, 4/01. D.L.

Tetraphis pellucida Hedw., Radley Wood, Northants, 5/91. H.N.D.

Pleuridium axillare Lindb., near Ashbourne (57), 10/01. W.R.L.

Ditrichum flexicaule Hpe., St. Annes (60), 2/01. H.B. (a *sand* form): v. *densum* Braithw., near Hartington (57), 7/94. T.B.

Swartzia inclinata Ehrh., Coatham marshes (62), 6/01. W.I.

Seligeria pusilla B. & S., near Stroud, Glos. (33), 4/01. E.J.E.; also, near Stroud, '92. G.H.

Seligeria calcarea B. & S., near Branghing, Herts, 9/01. H.D.

Cynodontium Bruntoni B. & S., near Blakeshall, Worcestershire, 9/01. J.B.D.

C. schisti Lindb., Engadine, Switz., 8/67. Leg. Dr. Fraser, Comm. J.E.B.

C. gracilescens Schp., Engadine, Switz., 8/67. Leg. Dr. Fraser, Comm. J.E.B.

C. virens Schp., forma, Ben Laoigh (88), 8/91 & 7/01. R.H.M.; also, Valais, Switz., 8/99. J.S.

C. Wahlenbergii R. & C., Cruach Ardran (88), 8/90. Leg. Dr. F. B. White. Comm., R.H.M.

Dicranella heteromalla, v. *sericea* Schp., Bolton Woods (64), 9/00. W.I.

D. cerviculata Schp., Bardon Hill Wood, Leicester (55), 8/01. A.B.J.

D. crispa Schp., Buxton (57), 6/01. W.R.L.

D. secunda Ldb. Moffat (72), 12/00. J.B.D.; also, Valais, Switz., 8/99. J.S.

D. rufescens Schp. Chapel-en-le-Frith (57), 10/01. T.B.

D. varia Schp., compact & tall variety, Wearhead (66), 7/98. W.I.

D. Schreberi Schp., near Stonnall (39), 9/97. J.E.B.

Dicranoweisia cirrata Ldb., Hertford, spring /00. H.D.

Campylopus flexuosus v. *paradoxus* Husn., Grisedale, Lancas., 11/00. H.B.

C. flexuosus Brid., an unnamed var., Cwm Mawr, Harlech (48), 11/10. D.A.J. "The leaves denticulate-serrate for some distance below the apex remind one somewhat of *C. setifolius*, but there is no doubt this is a form of *C. flexuosus*. It does not fit in with the descriptions of any of the named varieties, and might be called var. *serratus*, but in so variable a species it is perhaps inadvisable to add to the number of named forms. Var. *zonatus*, which has the leaves described as denticulate for some distance from the point, differs in the secund leaves, more deeply coloured auricles, &c."—R.H.M.

C. setifolius Wils., near Cwm Bychan (48), 12/01. D.A.J.

C. atrovirens v. *epilosus* Braithw., Borrowdale, Cumberland, 8/95. H.N.D.

C. penicillatus Hornsch. S. Paolo, Brazil, 1900. Leg. A. Robert, Comm. E.C.H.

Dicranum fulvellum Sm., Summit of Snowdon, 7/88. H.N.D.

Dicranum falcatum Hedw. Ben More (88), 7/97. H.N.D.; also, 8/01, J.S.

D. Starkii W. & M. Ben Lawers (88), 7/93. H.N.D.; also, Ben More (88), 8/01. J.S.; also, Valais, Switz., 8/99. J.S.

D. molle Wils., Ben More (88), 7/97. H.N.D.

D. Bonjeani De Not., near Preston (60), 4/00. H.B.: v. *rugifolium* Bosw. f. *uncinata* Dixon, Harlech (48), 10/01. D.A.J.

D. majus Turn., Lynmouth, 5/00. H.D.

D. flagellare Hedw. Abbots Bromley (39), 9/95. J.E.B.

D. montanum Hedw., near Leicester (55), 8/01. A.B.J.

D. uncinatum C.M., Achill Island, Co. Mayo, 9/01. H.W.L. New to Ireland.

Fissidens pusillus Wils., near Hastings, 9/00. H.D.

F. rivularis Spr., near Hastings, 9/00. H.D.

F. rufulus B. & S., R. Wharfe, Bolton Woods, Ilkley, 6/00. J.A.W. & A.W.

Octodiceras Julianum Brid. Submerged boulders, R. Severn, Bewdley, Worcestershire (37), 9/01. J.B.D. New to the British Flora.

Grimmia robusta Ferg., Maentwrog Valley (48), 11/01. D.A.J.

G. elatior B. & S. c. fr., Lärdel, Norway, 7/00. H.N.D. & W.E.N.

G. Doniana Sm., Patterdale, Cumberland, 6/01. W.L.W.E.

G. arenaria Hpe., Talsarnan (48), 10/00. D.A.J.

G. leucophæa Grev., Callerfountain (88), 12/01. R.H.M.

G. atrata Mielich., c. fr., near Maristuen, Norway, 7/00. H.N.D. and W.E.N.

Phascum Floerkeanum W. & M., Lewes, Sussex, 11/01. W.E.N.

Pottia intermedia Fürnr., Piercefield, 10/01. H.D. "Leaves slightly papillose, margins somewhat revolute. Special features of this sub-sp. especially in the frt. poorly characterised."—W.E.N.

Tortula muralis Hedw. v. *æstiva* Brid., Barnt Green (37) 3/01. E.C.: also, Bell End, Clent (37), 4/01 E.C., named *T. marginata*. "A form of *T. muralis*, probably v. *æstiva*. The leaf margin is distinctly revolute with obscure cells very different from those of *T. marginata*, which is also a more slender plant with a smaller but proportionately longer capsule."—W.E.N.

T. ruraliformis Dixon, Lahinch, Co. Clare, 8/01. E.A.; also, St. Annes (60), 2/00. H.B.

Barbula tophacea Mitt., Tramare, Co. Waterford, 5/01. H.D.; also, Cornwall. W.L.W.E.

Leptodontium flexifolium Hpe. c. fr., Badby Wood, Northants, '97. H.N.D.

L. recurvifolium Ldb., Cwm Bychan, (48), 12/01. D.A.J.

Weisia rostellata Ldb., Hamsey, Sussex, 12/01. W.E.N.

W. calcarea C.M., near Buxton (57), 9/00. T.B.: v. *viridula* C.M., Castle Howard (62), 5/00 & 12/01. W.I. New to England.

W. curvirostris C.M., Ben Laoigh (88), 8/91. R.H.M.

W. verticillata Brid., Cornwall. W.L.W.E.

Trichostomum mutabile v. *cophocarpum* Schp., Bolton Woods (64). 8/00. W.I.

T. tortuosum Dixon, c. fr. near Stroud, Glos., 4/85. E.J.E.; also, Glen Dochart (88), 8/01. J.S.

Pleurochæte squarrosa Ldb., Mentone, S. France, 12/00. H.N.D.

Cinclidotus fontinaloides P.B., Annacolty, Co. Limerick, 7/01. E.A.; also, Abergavenny, 10/01. H.D.

Encalypta ciliata Hoffm., Ben Vrackie (89), 8/01. E.C.

E. streptocarpa Hedw., c. fr., Pass of Killiecrankie (89), 8/01. E.C,

Ulota Ludwigii Brid., Glen Dochart (88), 8/01. J.S.

U. Bruchii Hornsch., Co. Limerick, 8/01. E.A.

U. phyllantha Brid., Co. Limerick, 8/01. E.A.; also, Tramore, Co. Waterford, 5/01. H.D

U. Hutchinsiæ Hamm., Glen Dochart (88), 8/01. J.S.

Orthotrichum anomalum Hedw., near Stroud, Glos., '99. G.H. "Too immature, but one fairly mature capsule showed no traces of the eight secondary ribs. Hence specimens belong to v. *saxatile* Milde."—W.E.N.

O. cupulatum v. *nudum* Braithw., Clapham, Yorks, 7/96. H.N.D.; also, Annacolty, Co. Limerick, 8/01. E.A.

O. speciosum Nees, Valais, Switz., 9/98. J.S.

O. Sprucei Mont. By R. Wye, Monmouth, 9/01. H.D. (named *O. rivulare*). "Readily distinguished from *O. rivulare* by the shorter softer stems, and above all by the very much larger and more pellucid cells of the leaves."—W.E.N.

O. pumilum Swartz., Aix les Bains, France, 5/01. Leg. E. A. Nicholson, Comm. W.E.N.

O. pulchellum Sm., Latheron, Caithness, 8/01. D.L.; also, Co. Limerick, 7/01. E.A.

Tayloria tenuis Schp., Lybster, Caithness, 7/01. D.L.

Discelium nudum Brid., near Whaley Bridge (58), 3/97. T.B.

Ephemerum serratum Hpe., Crowborough, Sussex, 10/01. W.E.N.

E. sessile Rab., Laughton, Sussex, 10/01. W.E.N.

Physcomitrella patens v. *Lucasiana* Schp., near Whaley Bridge (57) and (58), 10/01. T.B.

Physcomitrium sphæricum Brid., near Whaley Bridge (58), 10/01. T.B.

P. pyriforme Brid., near Preston (60), 4/01. H.B.

Funaria fascicularis Schp., near Bewdley (37), 6/01. J.B.D.

F. Templetoni Sm., Langwell, Caithness, 6/01. D.L.

F. calcarea Wahl., Silverdale, W. Lancas., 5/00. J.A.W.

F. hygrometrica v. *calvescens* B. & S., Naburn (61), 4/00. W.I.

Meesia trichoides Spr., Langwell, Caithness, 7/01. D.L.; also, Maize Beck (65), 8/01. E.C.H. & D.A.J.

Catoscopium nigritum Brid., Cronkley pastures, Teesdale (65), 8/01. E.C.H. & D.A.J.

Bartramia pomiformis Hedw., Patterdale (70), 6/01. W.L.W.E.

B. Halleriana Hedw., near Dalmally (98), 9/01. J.S.

Philonotis cæspitosa Wils., ♂, Tal-y-Llyn (48), 7/01. H.N.D.

P. adpressa Ferg., Ben Voirlich (88), 7/97. H.N.D.

P. seriata Mitt., Ben Douran, Argyll, 7/98; Ben More, Sutherland, 7/99; and Ben Nevis, 7/98. H.N.D.; also, Valais, Switz., 8/99. J.S.

Leptobryum pyriforme Wils., Little Eaton (57), 4/01. W.R.L.

Webera cucullata Schp., cfr., Ben Lawers (88), 7/99. H.N.D.

W. erecta (Roth) Correns, *W. proligera* (Lindb.) Kindb., *W. annotina* Hedw. Emend. Three bulbiferous forms of *W. annotina* Schwgr. Near Whaley Bridge (57), 8/01. For these names the sender desires to assume the whole responsibility. T.B.

W. Ludwigii Schp., Ben Clibreck, Sutherland, 7/99; also, Ben More (88), 7/97, perhaps var. *elata*. H.N.D.

W. carnea Schp., Lynmouth, 5/00. H.D.

Bryum filiforme Dicks. cfr., Pitlochry Moors (89), 8/01. E.C.; also, Glen Dochart (88), 8/01. J.S.

B. Duvalii Voit, Hartfell (72), 7/01. J.B.D.

Bryum pallescens Schleich., near Youlgrave (57), 7/01; also, Bradley Wood (57), 8/01. W.R.L.

Mnium affine v. *elatum* B. & S., near Birmingham (38), 6/01. E.C.

M. cuspidatum Hedw., near Abergavenny, 10/01. H.D.

M. hornum L., near Kirkham (60), 5/00. H.B.

Fontinalis antipyretica v. *cymbifolia* Nicholson (var. nov. *Jour. of Bot.* 12/01), R. Ouse, Hemingford Grey, Hunts., 8/01. H.N.D.; also, R. Ouse, Lewes, Sussex, 8/00. W.E.N.

F. squamosa L. cfr., R. Goyt, near Whaley Bridge (57), 8/00. T.B.; v. *latifolia* Card., Falls of Falloch, Perthsh., 7/97. Not a strongly marked form of the var. teste Cardot. H.N.D.

Neckera crispa v. *falcata* Boul., Malham Cove, Yorks., 7/96. H.N.D.; also, Kilburn (62), 4/98. W.I.

N. pumila v. *Philipeana* Milde., near Dolgelley (48), 8/98. T.B.

Habrodon Notarisii Schp., Killin (88), 8/82. Leg. Whitehead, Comm. T.B.

Antitrichia curtipendula Brid. cfr., Dartmoor, 8/94. H.N.D.

Porotrichum alopecurum Mitt., Brandon Mtn., Co. Kerry, 4/99. H.W.L.; also, cfr. Lynmouth, 5/00. H.D.; also, Scorton (60), 8/00. H.B.

Anomodon viticulosus H. & T., Grisedale, (60), 11/00. H.B.

Leptodon Smithii Mohr., Borrowdale, (70), 7/94. T.B.

Heterocladium heteropterum B. & S., cfr., Llyfnant, Montgomerysh., 7/01. H.N.D.; also, Tollymore Park, Co. Down, 7/01. E.A. Mr. Ingham thinks that the latter is a small form of the type, and not var. *fallax*, as it has not the short median cells and the extremely filiform stems of that var.

Pseudoleskea catenulata B. & S., Ingleborough, Yorks., 8/96. H.N.D.; also, High Cup Nick (69), 8/01. D.A.J.; also, Ben Vrackie (89), 8/01. E.C.; also, Valais, Switz., 9/98. J.S.

Thuidium delicatulum Mitt., Lodore Falls (70), 8/95. H.N.D.; also, Dolgelley (48), 9/98. T.B.

Climacium dendroides W. & M., Winscombe, Somerset, 5/00. H.D.

Cylindrothecium concinnum Schp., Stoke Bruerne, 6/87, and Cosgrove, 6/92, Northants. H.N.D.

Orthothecium rufescens B. & S., Ben Laoigh (88), 7/01. R.H.M.; also, Ben Laoigh (98), 9/01. J.S.

O. intricatum B. & S., Littondale, Yorks., 8/96. H.N.D.; also, Arthengarthdale (65), 8/00. W.I.

Lescurea striata v. *saxicola* B. & S., Riffelhaus, Zermatt, Switz., 8/98. J.S.

Pleuropus sericeus Dixon, St. Annes (60), 2/01. H.B.

Camptothecium lutescens B. & S. St. Annes (60), 2/01. H.B.

Brachythecium glareosum B. & S., near Stroud, Glos., '95. G.H.; also, same locality, 3/90. E.J.E.

B. albicans B. & S., St. Annes (60), 2/01. H.B.

B. salebrosum B. & S., cfr., Plumpton, Sussex, 12/98. Leg. W.E.N., Comm. H.N.D.: v. *palustre* Schp., St. Annes (60) 2/01. H.B.

B. rutabulum v. *robustum* Schp., R. Foss (62), 2/00. W.I.

B. rivulare v. *chrysoleucon* Spr., Cannock Chase (39), 12/00 H.B. [*Chrysophyllum* in the H.C. is an error in copying Spruce's name.—H.N.D.]

B. velutinum B. & S., near Preston (60), 12/00. H.B.

B. populeum B. & S., Killarney, 6/99. W.L.W.E.

B. cæspitosum Dixon, Goudhurst (16), 2/01, J.S.; also, Bewdley (37), 6/01. J.B.D. [The correct name of Mr. D.'s specimens, which were marked *E. murale julaceum.*]

B. illecebrum De Not., Villefranche, S. France, 1/01. H.N.D.

Hyocomium flagellare B. & S. cfr., Corris Valley (48), 7/01. H.N.D.; also, Maentwrog Valley (48), 11/01. D.A.J.; also, Patterdale (70), 6/01. W.L.W.E.

Eurhynchium speciosum Schp., Barkstòne (64), 12/01. W.I.

E. Teesdalei Schp., near Bewdley (37), 6/01. J.B.D.

E. myosuroides Schp., Killarney, '99. W.L.W.E.

E. striatum B. & S., near Preston (60), 3/01. H.B.; also, Killarney, 6/99. W.L.W.E.

E. rusciforme v. *inundatum* Brid., Ackworth (63), 3/01. W.I.

E. murale Milde, Scorton (60), 11/00. H.B.

E. confertum Milde, near Preston (60), 11/00. H.B.

E. rotundifolium Milde, near Stroud, Glos., 2/01. G.H. & E.J.E.

Plagiothecium Borrerianum v. *collinum* Wils., Bolton Woods (64), 8/00. W.I.

P. Müllerianum Schp. cfr., Diablerêts, Switz., 7/01. W.E.N.

P. striatellum Ldb., Ben Odhar, Perthsh., 7/97, and Glen Cce Argyllsh., 7/98. H.N.D.

Plagiothecium denticulatum v. *obtusifolium* H. & T., Craig Chaileach (88), 7/97. H.N.D.

P. undulatum B. & S., Lynmouth, 5/00. H.D.

P. latebricola B. & S., Mugginton (57), 7/01. W.R.L.; also, near Rugeley, Staffs, 6/01. H.P.R.

Amblystegium Juratzkæ Schp., Coatham Marshes (62), 6/01. W.I.

A. fluviatile B. & S., Hampton Loade (40), 6/01. J.B.D.

A. filicinum v. *vallisclausæ* Dixon (= *A. fallax* Milde), near Bewdley (37), 5/01. J.B.D.; also, Stroud, Glos, 8/96. E.J.E.

Hypnum stellatum Schreb., cfr. Wyre Forest (37), 6/01, E.C.; also, same locality, 5/01. J.B.D.: v. *protensum* B. & S. Ben Laoigh (98), 9/01. J.S.

H. Sommerfeltii Myr., near Stroud, Glos., '85 and '98. G.H.

H. aduncum Hedw. (Gr. *Kneiffii* Boul.) v. *Kneiffii* Schp., Naburn (61), 10/01. W.J.

H. aduncum Hedw., Gr. *pseudo-fluitans* Sanio, Coatham Marshes (62), 5/01. W.I.

H. aduncum Hedw. (Gr. *pseudo-fluitans*) v. *paternum* Sanio, Birkdale (59), 8/01. J.A.W.; also, near Preston (60), 4/01. H.B.

H. aduncum Hedw. (Gr. *typicum*) f. *falcata* Ren., Ditherington, Shrewsbury, 11/01. W.P.H.; also, Coatham Marshes (62), 5/01. W.I. "Yes, a robust form of it, liable to be taken for *H. Sendtneri* on account of its incrassate yellowish auricles, due according to Mons. Renauld, to growing in a saline habitat. The nerve is much thinner than in *H. Sendtneri*."—J. A. Weldon. "I agree, saving that I would omit 'much' from the last sentence. I measured nerves from 45—60 μ wide at the base and they are very prolonged. I am not sure whether as many bryologists would not put it under *H. Sendtneri* as under *H. aduncum*!"—H. N. Dixon.

H. aduncum Hedw. (Gr. *typicum*), Aberrant form of v. *turficola* Ren., Knottingley (63), 10/01. W.I. "A smaller plant from same locality agreed with v. *turficola*. The present plant seems an 'inundated' form of the same plant, and I fear the suggested name is open to doubt, the present examples verging on, if not actually belonging to group *Kneiffii*."—J. A. Wheldon. "I agree with the latter part of Mr. Wheldon's remarks."—H. N. Dixon.

H. Sendtneri Schp. mixed with *H. lycopodioides* Schwgr., Lytham (60), 7/00. H.B.

H. fluitans (Gr. *amphibium*) v. *setiforme* Ren., Soyland, Halifax (63), 4/01. C.C. "A form with short leaf points, originally

referred here by Mr. Dixon and apparently new to Britain."—J. A. Wheldon. "Perhaps it should be added Mons. Renauld qualified the 'var. *setiforme*' by saying it showed transition to 'var. *gracile*'."—H. N. Dixon.

H. fluitans (Gr. *amphibium*) v. *atlanticum* Ren., Abbeystead Fell (60), 10/01. J.A.W. and A.W.; also, Dawley, Salop, 8/01. Leg. W. H. Painter. Misit W.P.H.

H. fluitans (Gr. *amphibium*) v. *squalidum* Ren. & Dix., Dawley, Salop, 6/99. Leg. Painter. Misit W.P.H.

H. fluitans v. *falcatum* Schp., near Wellington, Salop, 8/01. Leg. W. H. Painter, comm. W.P.H. "I think rather a form of var. *squalidum* Ren. & Dix. "Some of the lower leaves have the distinctly piliform apex of that var."—J. A. Wheldon. "I should refer this to var. *squalidum* Ren. & Dix., but it is not quite so well marked as the type of that var. Mr. Painter sent me what was probably from the same gathering, but a different form, the leaves more regularly falcate, broader at the base and with basal cells somewhat incrassate. The smaller tuft in the packet now received comes very near it, but it is slightly more like var. *squalidum*, which is better represented by the looser, larger tuft. It is probable that the former (and the plant sent me formerly by Mr. Painter) represented a less aquatic state of the var. *squalidum*."—H. N. Dixon.

H. fluitans (Gr. *Rotæ*) v. *falcifolium* Ren., Skipwith Common (61), 7/01. W.I. & C.H.W.; also, Denton Moor, Ilkley, 5/01. A.W.

H. fluitans v. *falcatum* Schp. (Terrestial form of "*Anglicum Holtii*" of Report p. 90). Screel, Kirkcudbright, 6/00. W.P.H. "I cannot see the relation to var. *Holtii*—except as belonging to the same group. It is good var. *falcatum*—a very variable plant." —J. A. Wheldon. "I agree with Mr. Wheldon's remarks."—H. N. Dixon.

H. fluitans v. *Robertsiæ* Ren. & Dixon, Craig-lyn-Dyfi, Aran Mawddwy (48), 7/01. Leg. Mrs. Bradford & H.N.D. Original Station, H.N.D.

H. fluitans (Gr. *amphibium*) v. *gracile* Boul. f. *submersa* Ren., Greygarth Fell (60), 6/01. J.A.W. & A.W. "Mons. Renauld thinks this curious form entitled to rank as a distinct variety if found in other localities."—J.A.W.

H. fluitans (exannulatum) v. *pinnatum* Boul., approaching f. *stenophylloides* Ren., Pitlochry Moors (89), 8/01. E.C.

H. exannulatum v. *pinnatum* Boul. f. *montana* Ren., Denton Moor, Ilkley, 5/01. A.W.

H. exannulatum Guemb. v. *brachydictyon* Ren., Duff's Loch, Kirkcudbright, 6/00. W.P.H.

H. vernicosum v. *majus* Ldb., Docker (60), 5/01. A.W.

Hypnum commutatum Hedw., near Preston (59), 4/01. H.B.

H. falcatum Brid. cfr., Widdybank Fell, Durham, 8/96. H.N.D.

H. falcatum v. *virescens* Schp., near Wormhill, 6/01 and Lathkildale 7/01 (57), W.R.L. "I should have called it *H. falcatum* very closely approaching var. *virescens*, but with numerous paraphyllia."—H.N.D.

H. falcatum v. *gracilescens* Schp., Craig Chailleach (88), 7/97. H.N.D.

H. cupressiforme v. *filiforme* Brid., Grizedale (60), 11/00. H.B.

H. revolutum Ldb., Riffel Alp, Valais, Switz., 7/01. W.E.N.

H. callichroum Brid., Ben Heasgarnich and Ben Laoigh (88), 7/01. R.H.M.

H. procerrimum Mol., Diablerêts, Vaud, Switz., 7/01. W.E.N.

H. molluscum Hedw., near Preston, (60), 4/01. H.B.

H. palustre L., near Preston (60), 9/00. H.B.

H. ochraceum v. *flaccidum* Milde, R. Westend, N. Derbysh., 6/01. W.R.L. [Mr. Dixon considers this an extreme form of the var. almost as near the type.]

H. stramineum Dicks., Longridge (60), 11/00. H.B.

H. cordifolium Hedw., Thornfield, Co. Limerick, 7/01. E.A.

H. sarmentosum Wahl. Schiehallion (88), 8/01. E,C.; also, a form of the same (identical with that referred to in "Journal of Botany," 1899. p. 301, and approaching that referred to in "Journal of Botany," 1900, p. 419), Ben Vrackie (89), 8/01. E.C.

H. cuspidatum L., Winscombe, Somerset, 5/00. H.D.; also, near Preston (60), 5/00. H.B.: v. *pungens* Schp., near Preston (59), 3/01. H.B.: a large submerged form, Birkdale (59), 7/98 and 99. J.A W.

H. Schreberi Willd., cfr., Malvern Hills (36), 11/01; also, Kinloch Rannoch (88), 8/01. E.C.

Hylocomium umbratum B. & S., Ben Heasgarnich (88), 7/01. R.H.M.; also, Maentwrog Valley (48), 11/01. D.A.J.

H. pyrenaicum Ldb., Corrie Arder, Loch Laggan (97). T.B.

H. loreum B. & S., Killarney, 5/98. W.L.W.E.

H. squarrosum B. & S., Moffat (72), 12/00. J.B.D.

H. triquetrum B. & S., St. Annes (60), 3/01. H.B.

Frullania fragilifolia Tayl. (mixed with *F. tamarisci* L.), near Killin (88), 6/01. W.Y.

Lejeunia serpyllifolia v. *cavifolia* Lindb., Killin (88), 6/01. W.Y.

L. patens Lindb., Strath Halladale, W. Sutherland, 5/01. D.L.; also, Pontoon, Co. Mayo, 4/01. H.W.L.

Radula Lindbergii Gottsche, Ben Lawers (88), 6/01. W.Y.

Herberta adunca (Dicks.), Killin (88), 6/01. W.Y.

Pleurozia cochleariformis Weiss, Corcaguiny, Co. Kerry, 4/99. H.W.L.

Blepharozia ciliaris Dum., Greygarth Fell (60), 7/01. J.A.W. and A.W.

Trichocolea tomentella (Ehrh.), Chadsworth (57), 7/99; Leg. W.R.L., comm. W.L.W.E.

Blepharostoma trichophyllum (Dill.), Killin (88), 6/01. W.Y.

Lepidozia reptans (L.), Lomond Hills (85), 4/01. W.Y.

L. setacea Web., near Bournemouth, Dorset, 9/01. W.R.L.

Bazzania trilobata (L.), Killin (88), 6/01. W.Y.

B. triangularis Schleich., Killin (88), 6/01. W.Y.

B. tricrenata Wahl., Ben Lawers (88), 6/01. W.Y.

Kantia trichomanis (L.), Bolton Woods (64), 8/00. W.I.

K. Sprengelii (Mart.), Rugeley, Staffs., 9/01. H.P.R.; also, various localities (57), W.R.L; also, Tanderagee, Co. Armagh, 4/98. H.W.L.; also, Killin (88), 6/01. W.Y.

K. arguta (Mart.), Rugeley, Staffs., 9/01. H.P.R.; also, Corcaguiny, Co. Kerry, 6/98. H.W.L.

Cephalozia lunulæfolia Dum., Nephin Mtn., Co. Mayo, 5/01. H.W.L.; also, Bournemouth, Dorset, 9/01. W.R.L.

C. Lammersiana (Hüben.), near Kirkcaldy (85), 4/01. W.Y.

C. curvifolia (Dicks), Killin (88), 6/01. W.Y.

C. fluitans (Nees), Watten, Caithness, 8/01. D.L.

C. divaricata (Sm.), near Kirkcaldy (85), 4/01, and near Killin (88), 6/01. W.Y.

Adelanthus decipiens (Hook.), Ben Gorm and Achill Island, Co. Mayo, 9/01. H.W.L.

Pleuroclada albescens (Hook.), Ben Lawers (88), 6/01. W.Y.

Hygrobiella myriocarpa (Carr.), Killin (88), 6/01. W.Y.

Scapania compacta (Lindenb.), Killin (88), 6/01. W.Y.

S. resupinata Dum. v. *minor* Pearson (+ *Jung. gracilis* &c.), Clougha (60), 10/99. J.A.W.: v. *laxifolia* Dum., Brandon Mtn., Co. Kerry, 6/00. H.W.L.

S. subalpina (Nees), Killin (88), 6/01. W.Y.

S. æquiloba (Schwæge.), Killin, (88), 6/01. W.Y.

S. aspera Müll. & Bern., Sand dune form, Thurdistoft links and Dunnett links, Caithness, 4/01. D.L.

S. ornithopodioides (With.), Achill Island, Co. Mayo, 9/01. H.W.L.

S. purpurea Carr., Killin, (88), 6/01. W.Y.; also, Strath Halladale, W. Sutherland, 5/01. D.L.

S. irrigua Nees, Aghaderg, Co. Down, 8/01. H.W.L.; also, Killin and Ben Lawers (88), 6/01. W.Y.

S. convexa (Scop.), Killin (88), 6/01. W.Y.

Lophocolea cuspidata Limpr., near Kirkcaldy (85), 4/01. W.Y.

L. heterophylla (Schrad.), near Kirkcaldy (85), 4/01. W.Y.

Mylia Taylori (Hook.), Moidart, W. Inverness, and Antrim. Comm. W.L.W.E.

Jungermannia cordifolia Hook., Killin (88), 6/01. W.Y.

J. riparia Tayl., Lomond Hills (85), 4/01. W.Y.

J. inflata Huds., Pontoon, Co. Mayo, 5/01. H.W.L.

J. turbinata Raddi, Chapman's Pool, Dorset, 9/01. W.R.L.

J. exsecta Schmid, Lybster Hill, Caithness, 7/01. D.L.

J. lycopodioides Tayl., Killin & Ben Lawers (88), 6/01. W.Y.

J. Floerkii W. & M., Lomond Hills (85), 4/01, Killin and Ben Heasgarnich (88), 6/01. W.Y.; also, Loch Rangag, Caithness, 6/01. D.L.

J. Lyoni Tayl., Lomond Hills (85), Killin & Ben Lawers (88), 6/01. W.Y.

J. capitata Hook., Hawkesyard, Staffs., '01. H.P.R.; also, Old Yeldersley (57), 9/01. W.R.L.

J. bicrenata Schmid., Killin (88), 6/01. W.Y.

J. alpestris Schleich., Ben Lawers (88), 6/01. W.Y.

J. porphyroleuca Nees, Killin (88), 6/01. W.Y.

J. ventricosa Dicks., Lomond Hills (85), 4/01. W.Y.

Jungermannia orcadensis Hook, Ben Lawers (88), 6/01. W.Y.

J. bantriensis Hook., Lomond Hills (85), 4/01, and Ben Lawers, (88), 6/01: v. *Mülleri* Nees, Killin (88), 6/01. W.Y.

J. minuta Crantz., Lomond Hills (85), 4/01, and Ben Lawers, (88), 6/01. W.Y.; also, with *J. ventricosa* and *Mylia Taylori* among Sphagnum, Watten, Caithness, 5/01. D.L.

J. gracillima Sm., Killin (88), 6/01. W.Y.

Eucalyx hyalina Lyell, Lomond Hills (85), 4/01, W.Y.; also, Arncliffe Wood (62), 9/01. W.I.

E. obovata (Nees), Killin (88), 6/00. W.Y.

Nardia compressa (Hook), Shanlieve, Co. Down, 10/98. H.W.L.

N. geoscypha De Not., cfr. Ben Lawers (88) 6/01. W.Y.

N. scalaris (Schrad.) Connor Hill Pass, Co. Kerry, 10/97. H.W.L.

Marsupella conferta Spruce, Ben Lawers (88), 6/01. W.Y.

M. ustulata Spruce, Ben Lawers (88), 6/01. W.Y.

Acolea corallioides (Nees), Ben Lawers (88), 6/01. W.Y.

Fossombronia Dumortieri Lindb., Killin (88), 6/01. W.Y.

Pallavicinia hibernica v. *Wilsoniana* Gottsche, Coatham Marshes (62), 6/01. W.I.

Mörckia norvegica Gottsche, Ben Lawers (88), (6/01. Leg. Macvicar, comm. W.Y.

Pellia epiphylla (L.) cfr., Kirkcaldy (85), 4/01. W.Y.

P. Neesiana Limpr., Arncliffe Wood (62), 9/01. W.I.; also, Ben Lawers (88), 6/01. W.Y.

Aneura palmata (Hedw.), Lomond Hills, (85), 4/01. W.Y.

A. pinguis (L.), William Clough, Hayfield (57), 6/01. W.R.L.

Reboulia hemisphærica (L.), various localities (57), W.R.L.

Chomiocarpon quadratus (Scop.), Killin (88), 6/01. W.Y.

Ricciella fluitans (L.), Hencote Pool, Shrewsbury, 8/01. W.P.H.

Ricciocarpus natans (L.), Thurcaston, Leicester (55), 9/01: Leg. T. A. Preston, comm. A.B.J.

BALANCE SHEET FOR 1901.

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Desiderata for 1903.

The List already issued will remain in force with these alterations:—

The following should be added to the Desiderata List:

Tetraphis Browniana
Catharinea angustata
Campyl. flex. *v.* uliginosus
Dicranodont. longirostre and var.
Dicranum undulatum
,, spurium
,, strictum
,, molle
Fissidens Curnowii
Grimmia funalis
,, decipiens
,, Hartmani
,, commutata
Hedwigia imberbis
Tortula cuneifolia
,, princeps
,, papillosa
Barbula rubella *v.* dentata
Weisia crispa
Trichostomum flavovirens
Orthotrichum rupestre
Schistostega osmundacea
Splachnum ampullaceum
,, vasculosum
Orthodontium gracile
Webera nutans *v.* longiseta
Bryum calophyllum
,, Marratii
,, uliginosum
,, provinciale
Mnium serratum
Hypnum intermedium
Lejeunia ovata
Harpanthus scutatus
Eucalyx obovata
Marsupella Funckii
Chomiocarpon quadratus
Lunularia cruciata

The following are no longer required:

Swartzia inclinata
Seligeria recurvata
Cynodontium Bruntoni
Dicranella Schreberi
Fissidens incurvus
,, rivularis
Grimmia leucophæa
Rhac. heterostichum *vars.*
Eurhynchium speciosum
,, pumilum
,, Teesdalii
,, ruscif. *v.* atlanticum
Amblystegium *v.* vallisclausæ
Hypnum lycopodioides
,, callichroum
,, Schreberi
Hylocomium umbratum
Dicranum Starkii
,, falcatum
,, montanum
Tortula ruraliformis
Barbula lurida
Leptodontium flexifolium
Discelium nudum
Meesia trichoides
Bartramia Halleriana
Webera cruda
Mnium affine *v.* elatum
Neckera Philippeana
,, crispa *v.* falcata
Pseudoleskea catenulata
Orthothecium intricatum
Blepharostoma trichophyllum
Lepidozia cupressina
Bazzania triangularis
Kantia, all except *v.* repanda
Cephalozia Lammersiana
Scapania aspera
,, ornithopodioides
Lophocolea heterophylla
Jungermannia inflata
,, Lyoni
,, incisa
,, alpestris
Eucalyx hyalina
Reboulia hemispherica
Ricciella fluitans